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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHODS FOR PROCESSING ELECTROCARDIAC SIGNALS HAVING SUPERIMPOSED COMPLEXES

the specification of which was filed on July 11, 2003, Application Serial No. not yet assigned.

In the event that the filing date and/or Application Serial No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys/agent(s) at **Darby & Darby P.C.**, P.O. Box 5257, New York, New York 10150-5257, to insert above the filing date and/or Application Serial No. of said application.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| that of the application on which priority is claimed. | |
|-------------------------------------------------------|--|
| X no such foreign applications have been filed | |
| such foreign application have been filed as follows: | |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|---------|----------------|--------------------------------------|
| | | _ | Yes No |
| | | | Yes No |
| | | | Yes No |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing |
|--------------------|---------|----------------|
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| | | |

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

| | no such U.S. | provisional | applications | have | been | filed. |
|--|--------------|-------------|--------------|------|------|--------|
|--|--------------|-------------|--------------|------|------|--------|

x such U.S. provisional applications have been filed as follows:

| Application Number | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|-------------------|--------------------------------------|
| 60/247,269 | November 10, 2000 | x Yes No |
| 60/295,217 | June 1, 2001 | x Yes No |
| | | Yes No |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

| | no such U.S./PCT applications have been filed. |
|---|-------------------------------------------------------|
| x | such U.S./PCT application have been filed as follows: |

| Application Number | Date of Filing | Status (Patented/Pending/Abandoned) |
|--------------------|------------------|-------------------------------------|
| 10/005,470 | November 7, 2001 | Pending |
| | | |
| | | |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint:

| Paul F. Fehlner, Ph.D. | 35,135 | Joseph B. Lerch | 26,936 | Peter C. Schechter | 31,662 |
|------------------------|--------|--------------------|--------|-------------------------|--------|
| Paul Fields | 20,298 | Bert J. Lewen | 19,407 | Henry Sternberg | 22,408 |
| Melvin C. Garner | 26,272 | Scott G. Lindvall | 40,325 | Robert C. Sullivan, Jr. | 30,499 |
| Adda C. Gogoris | 29,714 | S. Peter Ludwig | 25,351 | Michael J. Sweedler | 19,937 |
| Marc S. Gross | 19,614 | Joseph R. Robinson | 33,448 | Pierre R. Yanney | 35,418 |
| David Leason | 36,195 | Robert Schaffer | 31,194 | | |

all of **Darby & Darby P.C.**, P.O. Box 5257, New York, New York 10150-5257, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

Please mail all correspondence to David Leason, whose address is:

Darby & Darby P.C.P.O. Box 5257
New York, New York 10150-5257

Please direct telephone calls to: David Leason at (212) 527-7602.

| Full name of sole or first inventor | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| David P. MacAdam | |
| Sole or first inventor's signature | Date |
| Don't Mahr | 11/03/03 |
| Residence | |
| Millbury, Massachusetts | |
| Citizenship US | |
| Mailing Address | |
| | |
| 5 Cyndy Lane | |
| Millbury, Massachusetts 01527 | |
| | |
| | |
| Full name of second inventor, if any | |
| Paul J. Wang | |
| Second inventor's signature | Date |
| Residence | |
| | |
| Boston, Massachusetts | |
| Citizenship US | |
| Mailing Address | |
| 750 Washington Street | |
| Boston, Massachusetts 02111 | |
| Boston, Wassachusetts 02111 | |
| | |
| Full name of third inventor, if any | |
| Shawn Yang | |
| Third inventor's signature | Date |
| _ | |
| Residence | |
| Andover, Massachusetts | |
| Citizenship US | |
| Mailing Address | |
| | |
| 6 Irongate Drive | |
| Andover, Massachusetts 01810 | |
| | to the state of th |
| | |
| Full name of fourth inventor, if any | |
| Dipen Shah | |
| Fourth inventor's signature | Date . |
| | |
| Residence | |
| Talence, France | |
| Citizenship FR | |
| Mailing Address | |
| 65 Rue de la Republique | |
| F-33400 Talence, Bordeaux | |
| France | |

7#50AM

p.3

NO.699

___-

O 1 P E 40.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION FOR PATENT APPLICATION

As a selow named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention untitled:

METHODS FOR PROCESSING ELECTROCARDIAC SIGNALS HAVING SUPERIMPOSED COMPLEXES

the specification of which was filed on July 11, 2003, Application Serial No. 10/618,414.

In the event that the filing date and/or Application Serial No. are not emered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys/sgent(s) at Darby & Darby P.C., P.O. Box 5257, New York, New York 10150 5257, to insert above the filing date and/or Application Serial No. of said application.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

I heraby claim foreign priority benefits under Title 35. United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below my foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| X no such foreig | n applications have been filed |
|------------------|----------------------------------------|
| | pplication have been filed as follows: |
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| , " | |

בוראל מאורדות ביוווים ביותחו והאדנות שם

NO.756

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FEB. 23.2004 7 500

NO.699

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Attorney Docket No.: 01780/100G910-US3

EARLIEST FOREIGN APPLICATION(S). IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| ı | | | | _ | |
|---|-------------------|--------------|---------|----------------|------------------|
| { | ordination Nu | nber | Country | Date of Filing | Under 95 USC 119 |
| 1 | 1 | | | | 11002 39 USC 119 |
| ł | | - | | | Ait No |
| } | | | | | Yas No |
| 1 | | | | | Yes No |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| 2000/ | | C.S. AFFLECATION |
|--------------------|----------|------------------|
| Application Number | Doubly ! | Date of Films |
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| # de a se a mare | | |

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code \$119(e), of any United States provisional patent application(s) listed below:

o such U.S provisional applications have been filed.

x such U.S. provisional applications have been filed as follows:

| Application Number | Deta of Filing | Princip Chamest Linder 35 USC 119 |
|--------------------|-------------------|--------------------------------------|
| 60/247,269 | November 10, 2000 | K 75 No |
| 50/295,217 | June +, 2001 | Y You No |
| | | Yes No |

CLAIM FOR BENEFIT OF EARLIER U.S. PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35. United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Pederal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

NO.756

NO.699

FEB. 23, 2004

Attenuey Docket No.: 01780/100G910-US3

no such U.S /PCT applications have been filed.

| x | such U.S./PCT application have been filed as follows:

| Application Number | Date of Filing | Shing (Patented/Panding/Alterakoned) |
|--------------------|------------------|-----------------------------------------|
| 10/005,470 | November 7, 2001 | Pending |
| | | |
| | | |

I hereby declare that all statements made havein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may icopardize the validity of the application or any patent issued thereon.

| Paul F., Fehlner, Ph.D., Paul Fride: Melvin C. Garain Adda G. Gogoria Marc S. Grous David Falson | 35,135 20,256 , 26,272 29,714 10,414 36,195 | Joseph B. Lereb Brit.J. Leren Sout G. Lindvell S. Peter Ludvin Joseph R. Robinson Robert Schaffer | 26,936 19:407 40:325 23:351 33:448 31:194 | Pater C. Schechter Henry Standarg Rebert C. Sullivan, Jr. Michael J. Sweedler Pittre R. Vanney | 31,662 22,408 30,499 19,937 35,418 |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------|

all of Darby & Parby P.C., P.O. Box 5257. New York, New York 10150-5257, jointly, and each of them severally, my automeys at law/patent agent(s), with full power of substitution, dulagation and revocation, to prosecute this application, to make alterations and amendments therein to receive the natent and to transact all husiness in the U.S. Patent and Trademark Office connected therewith

Please mail all correspondence to David Leason, whose address is:

Darby & Darby P.C. New York, New York 10150-5257

Please direct telephone calls to: David Leason at (212) 527-7602.

p.6



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHODS FOR PROCESSING ELECTROCARDIAC SIGNALS HAVING SUPERIMPOSED COMPLEXES

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|------------------------------------------------------|---|
| such foreign application have been filed as follows: | |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|---------|----------------|--------------------------------------|
| | | | Yes No |
| | | | Yes No |
| | | | Yes No |

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| Application Number | Country | Date of Filing |
|--------------------|----------|----------------|
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CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

| | no such U.S. | provisional | applications | have been | n filed. |
|--|--------------|-------------|--------------|-----------|----------|
| | mo saon o.b. | provisionar | applications | mave been | i illou |

x such U.S. provisional applications have been filed as follows:

| Application Number | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|-------------------|--------------------------------------|
| 60/247,269 | November 10, 2000 | x Yes No |
| 60/295,217 | June 1, 2001 | x Yes No |
| | , | Yes No |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

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|------------------------------------------------------|-----|
| x such U.S./PCT application have been filed as follo | ws: |

| Application Number | Date of Filing | Status (Patented/Pending/Abandoned) |
|--------------------|------------------|-------------------------------------|
| 10/005,470 | November 7, 2001 | Pending |
| | | |
| | | |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint:

| Paul F. Fehlner, Ph.D. | 35,135 | Joseph B. Lerch | 26,936 | Peter C. Schechter | 31,662 |
|------------------------|--------|--------------------|--------|-------------------------|--------|
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| Adda C. Gogoris | 29,714 | S. Peter Ludwig | 25,351 | Michael J. Sweedler | 19,937 |
| Marc S. Gross | 19,614 | Joseph R. Robinson | 33,448 | Pierre R. Yanney | 35,418 |
| David Leason | 36,195 | Robert Schaffer | 31,194 | | |

all of **Darby & Darby P.C.**, P.O. Box 5257, New York, New York 10150-5257, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

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Darby & Darby P.C.
P.O. Box 5257
New York, New York 10150-5257

Please direct telephone calls to: David Leason at (212) 527-7602.

| Full name of sole or first inventor | |
|--------------------------------------|----------|
| David P. MacAdam | ·,. |
| Sole or first inventor's signature | Date |
| Sole of first inventor a signature | |
| | 1 |
| Residence | |
| Millbury, Massachusetts | |
| Citizenship US | |
| Mailing Address | |
| 5 Cyndy Lane | |
| Millbury, Massachusetts 01527 | |
| Milibury, Massachasta C1227 | - |
| | |
| Full name of second inventor, if any | |
| Paul J. Wang | |
| Second inventor's signature | Date |
| | |
| Residence | |
| Boston, Massachusetts | · |
| Citizenship US | |
| Mailing Address | |
| | • |
| 750 Washington Street | |
| Boston, Massachusetts 02111 | • |
| · | |
| | |
| Full name of third inventor, if any | |
| Shawn Yang | Date |
| Third inventor's signature | 11/05/03 |
| Residence | 11/10/07 |
| | |
| Andover, Massachusetts | 2 |
| Citizenship US | |
| Mailing Address | • |
| 6 Irongate Drive | |
| Andover, Massachusetts 01810 | |
| Tindover, massachasens or or o | |
| | |
| Full name of fourth inventor, if any | |
| Dipen Shah | |
| Fourth inventor's signature | Date |
| | |
| Residence | |
| Talence, France | |
| Citizenship FR | |
| Mailing Address | |
| <u> </u> | |
| 65 Rue de la Republique | • |
| F-33400 Talence, Bordeaux | |
| France | |



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

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I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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| Application Number | · Country | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|-----------|----------------|--------------------------------------|
| | | | Yes No |
| | | · | Yes No |
| | • | | Yes No |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing |
|--------------------|---------|----------------|
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| | | |
| | | |

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

| · | no such U.S | . provisional | applications | have | been i | filed. |
|---|-------------|---------------|--------------|------|--------|--------|
|---|-------------|---------------|--------------|------|--------|--------|

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| Application Number | Date of Filing | Priority Claimed Under 35 USC 119 | |
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| 60/247,269 | November 10, 2000 | x Yes No | |
| 60/295,217 | June 1, 2001 | x Yes No | |
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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| Adda C. Gogoris | 29,714 | S. Peter Ludwig | 25,351 | Michael J. Sweedler | 19,937 |
| Marc S. Gross | 19,614 | Joseph R. Robinson | 33,448 | Pierre R. Yanney | 35,418 |
| David Leason | 36,195 | Robert Schaffer | 31,194 | | |

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New York, New York 10150-5257

Please direct telephone calls to: David Leason at (212) 527-7602.

| Full name of sole or first inventor | |
|-----------------------------------------------|----------------------------------------|
| David P. MacAdam | 9 |
| Sole or first inventor's signature | Date |
| | |
| Residence | |
| Millbury, Massachusetts | |
| Citizenship US | • |
| Mailing Address | |
| • | |
| 5 Cyndy Lane | |
| Millbury, Massachusetts 01527 | |
| | |
| Full name of second inventor, if any | |
| Paul J. Wang | |
| Second inventor's signature | Date |
| • | · |
| Residence | |
| Boston, Massachusetts | |
| Citizenship US | |
| Mailing Address | |
| | |
| 750 Washington Street | |
| Boston, Massachusetts 02111 | |
| | |
| Full name of third inventor, if any | |
| Shawn Yang | |
| Third inventor's signature | Date |
| | |
| Residence | |
| Andover, Massachusetts | |
| Citizenship US | |
| Mailing Address | · |
| 6 Imamonto Deiro | |
| 6 Irongate Drive Andover, Massachusetts 01810 | |
| Tildover, iviassacitasetts of oro | |
| <u></u> | |
| Full name of fourth inventor, if any | |
| Dipen Shah | <u>-</u> |
| Fourth inventor's signature | Date 10:11 9 2 |
| 4500 | 10.11. 2003 |
| Residence | * |
| Talence, France | |
| Citizenship PR (NDIA | |
| Mailing Address | 0 1/11 1/2 |
| 65 Rue de la Republique 12 Avenue | Garpard Vallette |
| F-33400 Talence, Bordeaux | Garpard Vallette revera Switzarland |
| France | |
| | |

12